Sheet 1 of 1Form PTO-1449
(REV. 8-83)US Dept. of Commerce
PATENT & TRADEMARK OFFICEATTY DOCKET NO.
117483APPLICATION NO.
10/680,157

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANT(S)
Masahiko YAMAMOTO et al.FILING DATE
October 8, 2003GROUP
~~2651~~ 2827

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

LN	1	Jian-Gang ZHU et al. "ULTRAHIGH DENSITY VERTICAL MAGNETORESISTIVE RANDOM ACCESS MEMORY (INVITED)," Journal of Applied Physics, Volume 87, No. 9, May 1, 2000, pgs. 6668-6673.
LN	2	M. KLÄUI et al. "VORTEX CIRCULATION CONTROL IN MESOSCOPIC RING MAGNETS," Applied Physics Letters, Volume 78, No. 21, May 21, 2001, pgs. 3268-3270.
LN	3	M. SCHNEIDER et al. "MAGNETIC SWITCHING OF SINGLE VORTEX PERMALLOY ELEMENTS," Applied Physics Letters, Volume 79, No. 19, November 5, 2001, pgs. 3113-3115.
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EXAMINER

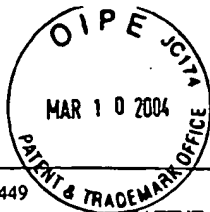
V. Nguyen

DATE CONSIDERED

4/19/05

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Date: February 17, 2004

Sheet 1 of 1

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INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)				APPLICANT(S) Masahiko YAMAMOTO et al.			
				FILING DATE October 8, 2003		GROUP 2631 2827	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	
<i>W</i>	1.	5,475,304	12/12/1995	PRINZ			
<i>W</i>	2.	5,432,373	7/11/1995	JOHNSON			
<i>W</i>	3.	US 6,351,410 B1	2/26/2002	NAKAO et al.			
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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	
<i>W</i>	4.	WO 03/032336 A1	4/17/2003	WIPO			
<i>W</i>	5.	EP 0 375 646 A2	6/27/1990	EUROPE			
<i>W</i>	6.	WO 00/10178	2/24/2000	WIPO			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)							
<i>W</i>	7.	M. Schneider et al.; "Lorentz microscopy of circular ferromagnetic permalloy nanodisks"; Applied Physics Letters; American Institute of Physics., New York, US, Vol. 77, No. 18; October 30, 2000; pp 2909-2911					
EXAMINER <i>V. N. Zeevaert</i>				DATE CONSIDERED <i>4/19/05</i>			
Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

Date: March 10, 2004